STS-110 MIDDECKS (TGHR TABLE, BASIC)

2-21-02

	MIDDECK	REQUIRED/		LAUNCH					OFF-LINE
MIDDECK	LOCATION	SCHEDULED STOW	IVT	DELAY	REFURB	DESTOW	EEOM	ORIENTATION	LAB
BPS ^{a,c}	MF43C/E	= L-19 HRS / L-19:00</td <td>YES</td> <td>48 HRS</td> <td>OFFLINE</td> <td>N/A</td> <td>BEST EFFORT</td> <td>FRONT PANEL</td> <td>HANGAR L</td>	YES	48 HRS	OFFLINE	N/A	BEST EFFORT	FRONT PANEL	HANGAR L
							(NONE)	DOWN	
PCG-EGN Dewar ^a	MA16G	= L-24 HRS / L-21:10</td <td>NO</td> <td>48 HRS</td> <td>OFFLINE</td> <td>N/A</td> <td>KSC ONLY;</td> <td>DOOR UP</td> <td>O&C 1287C</td>	NO	48 HRS	OFFLINE	N/A	KSC ONLY;	DOOR UP	O&C 1287C
							DFRC - BEST		
							EFFORT		
ZCG-SS ^a	MA9F (TBD)	= L-24 HRS / L-21:40</td <td>NO</td> <td>48 HRS</td> <td>OFFLINE</td> <td>N/A</td> <td>NONE</td> <td>NONE</td> <td>SSPF 1403</td>	NO	48 HRS	OFFLINE	N/A	NONE	NONE	SSPF 1403
	MA16F (TBD)	L-21:00		(72 HRS)					
CGBA ^a	MF71C	= L-24 HRS / L-21:50</td <td>YES</td> <td>48 HRS</td> <td>OFFLINE</td> <td>N/A</td> <td>NONE</td> <td>NONE</td> <td>SSPF 1456</td>	YES	48 HRS	OFFLINE	N/A	NONE	NONE	SSPF 1456
CPCG-H ^{a,c}	MF71G	= L-24 HRS / L-22:20</td <td>YES</td> <td>96 HRS</td> <td>OFFLINE</td> <td>N/A</td> <td>KSC ONLY;</td> <td>DOOR DOWN</td> <td>O&C 2249</td>	YES	96 HRS	OFFLINE	N/A	KSC ONLY;	DOOR DOWN	O&C 2249
				(48 HRS)			DFRC - BEST		
							EFFORT		
BTR ^b	MA9G	NOMINAL	YES	NONE	NONE	RUNWAY	KSC ONLY;	NONE	O&C 1295
		(= L-24 HRS / TBD)</td <td></td> <td></td> <td></td> <td></td> <td>DFRC - BEST</td> <td></td> <td></td>					DFRC - BEST		
							EFFORT		
HRF Urine Tube	MA16F	N/A	N/A	N/A	N/A	RUNWAY	KSC ONLY;	NONE	SSPF 1477
Dispenser Assy d							DFRC - BEST		
(HRF Renal SS)							EFFORT		
PCG-STES (2) a,d,e	MF43C	N/A	N/A	N/A	N/A	RUNWAY	KSC ONLY;	DOOR DOWN	O&C 1287C-
	MF43E						DFRC - BEST		G
							EFFORT		
ADVASC-GC d	Mdk Floor Port1	N/A	N/A	N/A	N/A	RUNWAY	KSC ONLY;	TBD	SSPF 1407B
(Not currently listed)							DFRC - BEST		
							EFFORT		
ADVASC Stowage	MF71K	N/A	N/A	N/A	N/A	RUNWAY	KSC ONLY;	NONE	SSPF 1407B
$2/3^d$							DFRC - BEST		
(Not currently listed)							EFFORT		

^a Ascent only; hardware to be transferred to ISS.

Red italicized text indicates required changes to the current TGHR. Parenthesis is currently documented requirement in TGHR.

ADVASC-GC ADVANCED ASTROCULTURE - GROWTH CHAMBER

BPS BIOMASS PRODUCTION SYSTEM

BTR BIOTECHNOLOGY REFRIGERATOR

CGBA COMMERCIAL GENERIC BIOPROCESSING APPARATUS

CPCG-H COMMERCIAL PROTEIN CRYSTAL GROWTH – HIGH DENSITY

HRF HUMAN RESEARCH FACILITY

PCG-EGN PROTEIN CRYSTAL GROWTH – ENHANCED GASEOUS NITROGEN

PCG-STES PROTEIN CRYSTAL GROWTH - SINGLE LOCKER THERMAL ENCLOSURE SYSTEM

ZCG-SS

ZEOLITE CRYSTAL GROWTH - SAMPLE STOWAGE

^b BTR will remain in the middeck, and the contents will be swapped from the BTR unit on the ISS to the BTR unit in the Orbiter.

^c If payload is not transferred to ISS, powered runway destow is required at KSC or DFRC.

^dDescent only; hardware is to be transferred from ISS.

^e During all handling (inside and outside the Orbiter), personnel must wear ESD dissipative gloves (KSC blue gloves).